

E000P-971090-01
Date: 12/03/97

MODIFICATION REVIEW

For

BEAMLINE
PERSONNEL SAFETY SYSTEM

ARGONNE NATIONAL LABORATORY
ADVANCED PHOTON SOURCE
EXPERIMENTAL FACILITIES

E000P-971090-01

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PSS Change Request
03 December 1997

1. PSS Change

Chain A:

The common timer for all shutter operations will be replaced by separate timers for each shutter function. The shutter operations affected by the change will be; open, close and fault detection.

Chain B:

Chain B is not affected and operates properly under this condition.

2. Reasons for the PSS Change.

Shutter operation and fault detection at completion of a commanded shutter move share a common timer. It has been found necessary to increase the timer from 3 seconds to 10 seconds during the shutter open operation to prevent a nuisance fault from occurring. This cannot be accomplished without affecting the timing of the shutter close operation and also affecting the time during which shutter operation fault detection is inhibited.

3. Extent of the PSS Change

This change will affect all Chain A Beamline code written or modified on or after 01 March 1998.

4. Method of Implementation

The changes will be applied using the existing Software Change Request mechanism as defined in the Software Configuration Management Procedures document E000P-921130-01 dated 03/25/96 for the Interlock Systems and Instrumentation Group.